

## Abstract

There is provided a method for producing a spark plug in which welding strength between a noble metal tip and an electrode joined by laser welding can be restrained from becoming weak.

A noble metal tip (90) to be joined to a center electrode (2) or ground electrode of a spark plug to form a spark discharge gap is resistance-welded to each electrode containing no noble metal and then laser-welded. In the noble metal tip (90) exposed under a severe environment involving spark discharge, a molten portion (80) formed in such a manner that a portion of the noble metal tip (90) and a portion of the electrode are melted by laser welding and a non-molten portion (95) on the noble metal tip (90) side are apt to be peeled from each other in a boundary surface (83) between the molten portion (80) and the non-molten portion (95). The noble metal content in the molten portion (80) however becomes higher because a flange portion is formed in a bottom portion by pressing force applied on the noble metal tip (90) at the time of resistance welding and then irradiated with a laser beam. Accordingly, peeling can be prevented from occurring in the boundary surface (83).